

ABSTRACT OF THE DISCLOSURE

To provide a three-dimensional molding technique capable of generating a three-dimensional molded article in short time.

In a three-dimensional molding apparatus, a powder material is allowed to drop via an opening while moving a thin layer formation section in the +X direction, thereby forming a powder layer on a molding stage. With respect to a selected region in the powder layer, a binder of ultraviolet-ray hardening resin is discharged from a head section. Then, the powder layer is irradiated with ultraviolet rays from an ultraviolet irradiation section, making the ultraviolet-ray hardening resin applied on the powder layer harden to thereby bind the powder material. By repeating this operation with respect to the powder layer which is sequentially formed, a three-dimensional molded article is formed. In this way, since an ultraviolet-ray hardening resin is used as a binder and a powder material can be bound rapidly by ultraviolet irradiation, it is possible to generate a three-dimensional molded article in short time.